TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-09-06-01** **Date: 08-09-17**
Customer	:	Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T.Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Sheshadri Layout and Connection road to Ganapathi Badavane road in Ward no.14
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore-10.
Customer's Reference	:	BBMP/EE/DD/WO/037/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-09-17
Sample ID No	:	2017-09-06-01-01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	07-09-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**68**	60 to 70
2	Softening Point, °C	**48.8**	Min. 40°C
3	Ductility, cm	**97**	Min. 75cm
4	Flash point, °C	**236**	Min. 220°C
	Fire point, °C	**251**	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL PRO Sig..... Date..... BANGALORE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-09-11-01** **Date: 12-09-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Sheshadri Layout and Connection road to Ganapathi Badavane road in Ward no.14
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-10
Customer Reference	:	BBMP/EE/DD/WO/037/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-01/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		11-09-17
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	507	672	13.4	86.6	56-88
4.75	2754	3426	68.5	31.5	16-36
2.36	917	4343	86.9	13.1	4-19
0.3	359	4702	94.0	6.0	2-10
0.075	213	4915	98.3	1.7	0-8
PAN	85	5000	100.0	0.0	0

Note:-

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All information furnished by Customer/Representative
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Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2017-09-11-01** **Date: 14-09-17**
Customer	:	Assistant Executive Engineer, T. Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T. Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads at Sheshadri Layout and Connection road to Ganapathi Badavane road in Ward no.14
Agency	:	Technical Manager (West), KRIDL, Project Implementation Unit, No.280, 59th Cross, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagar, Bangalore-10
Customer Reference	:	BBMP/EE/DD/WO/037/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-09-17
Sample ID No	:	2017-09-11-01/01
Type of Mix	:	BM (Bituminous Macadam)
Date of test	:	11-09-17

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.6	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	13.3		
Strength	Aggregate Impact Value	23.4	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.55	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.25	Maximum 2%	IS:2386 Part III

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quallity Manager

Prepared By:
Harshitha

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End of Report